## **Amendments to the Claims**

We Claim:

1. (Currently amended) A compound of Formula I:

$$R^1$$
 $N$ 
 $R^2$ 
 $R^3$ 

where:

 $R^1$  is  $(C_3-C_7$ -cycloalkyl)<sub>0-1</sub> $(C_1-C_6$  alkyl),  $(C_3-C_7$ -cycloalkyl)<sub>0-1</sub> $(C_2-C_6$  alkenyl),  $(C_3-C_7$ -cycloalkyl, each optionally substituted with up to three groups independently selected from halo, hydroxy, thiol, cyano, trifluoromethyl, trifluoromethoxy,  $C_4-C_7$ -alkoxy,  $C_3-C_7$ -cycloalkoxy, oxo, and  $NR^4R^5$ , biphenyl optionally

$$\mathbb{R}^{7}$$
  $\mathbb{R}^{8}$   $\mathbb{R}^{9}$   $\mathbb{R}^{9}$ 

substituted with halo, hydrogen,

 $R^2$  is  $C_4$ - $C_3$ -alkyl, benzyl optionally monosubstituted in the phenyl ring with a substituent selected from the group consisting of halo,  $C_4$ - $C_6$ -alkoxy optionally substituted in the alkyl chain with  $C_3$ - $C_7$ -cycloalkyl, and  $C_4$ - $C_6$  alkylthio optionally substituted in the alkyl chain with  $C_3$ - $C_7$ -cycloalkyl, or benzyl optionally disubstituted in the phenyl ring with a first substituent independently selected from halo and a second substituent independently selected from halo,  $C_4$ - $C_6$ -alkoxy optionally substituted in the alkyl chain with  $C_3$ - $C_7$ -cycloalkyl, and  $C_4$ - $C_6$ -alkylthio optionally substituted in the alkyl chain with  $C_3$ - $C_7$ -cycloalkyl;

 $R^3$  is:

i) a piperidin-2-yl moiety of formula:

ii) a tetrahydropyridin-2-yl moiety of formula:

iii) a piperazin 2 yl moiety of formula:

iv) homopiperidin-2-yl;

v) 1,2,3,4-tetrahydroisoquinolin-3-yl optionally substituted with one or two substituents selected from halo, C<sub>1</sub>-C<sub>6</sub> alkyl, and C<sub>1</sub>-C<sub>6</sub> alkoxy;

vi) 2-azabieyelo[2.2.2]oct-(5Z)ene-3-yl;

vii) 2 azabicyclo[2.2.1]hept 3 yl optionally substituted with C<sub>1</sub>-C<sub>10</sub> alkyl optionally substituted with C<sub>1</sub>-C<sub>4</sub> alkoxy; or

viii) 2 azabicyclo[2.2.2]oct 3 yl optionally substituted with oxo, or optionally substituted with one or two substituents independently selected from hydroxy, fluoro, and C<sub>1</sub>-C<sub>6</sub> alkyl;

 $X \text{ is CH, N, or N}^+-O^-$ ;

Y is CR<sup>11</sup>. N. or N<sup>+</sup>-O<sup>-</sup>:

O is CR<sup>12</sup>- N. or N<sup>+</sup>-O-:

 $R^4$  is hydrogen,  $C_1$ - $C_6$  alkyl optionally substituted up to three times with fluoro, or phenyl;  $R^5$  is hydrogen,  $C_1$ - $C_6$  alkyl optionally substituted up to three times with fluoro, phenyl,  $C(O)(C_1$ - $C_6$  alkyl optionally substituted up to three times with fluoro), or

-SO<sub>2</sub>(C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted up to three times with fluoro);

R<sup>6</sup> and R<sup>7</sup> are independently selected from the group consisting of methyl, ethyl, and propyl;

R<sup>8</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>9</sup> is C<sub>3</sub> C<sub>5</sub> cycloalkyl, see butyl, or CH<sub>2</sub>R<sup>13</sup>;

 $R^{10}$  is  $-CF_2R^{14}$ ,  $-OR^{15}$ ,  $-CH_2C(O)CH_3$ ,  $-S(O)_{1.2}R^{16}$ ,  $-NR^{17}SO_2R^{18}$ ,  $(C_1-C_3$ -alkoxy)-carbonyl, phenyl optionally substituted with halo, 1,3 dioxolan 2 yl, 1,3 dioxan 2 yl, 1,1 dioxo-2,3,4,5 tetrahydroisothiazol-2 yl, or tetrazol-5 yl optionally substituted with  $C_1$ - $C_3$ -alkyl;

C<sub>1</sub>-C<sub>6</sub> alkyl;

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R<sup>11</sup> is hydrogen, chloro, isobutyl, CH<sub>2</sub>R<sup>19</sup>; CF<sub>2</sub>R<sup>20</sup>, 1,1,1-trifluoro-2-hydroxyeth-2-yl, C<sub>2</sub>-
C<sub>4</sub>-alkenyl optionally substituted with one or two fluorine atoms, OR<sup>21</sup>. C(O)R<sup>22</sup>.
N(methyl)(methylsulfonyl), N(methyl)(acetyl), pyrrolidin 2 on 1 yl, methylsulfonyl, N,N
dimethylaminosulfonyl, phenyl optionally substituted with one or two substituents selected from
the group consisting of hydroxymethyl, methoxy, fluoro, and methylsulfonyl, 1,3 dioxolan 2 yl,
1,3 dithiolan 2 yl, 1,3 oxathiolan 2 yl, 1,3 dioxan 2 yl, 1,3 dithian 2 yl, pyridinyl, thiazolyl,
oxazolyl, or 1,2,4-oxadiazolyl optionally substituted with methyl;
          R<sup>12</sup> is hydrogen or fluoro:
          R<sup>13</sup> is ethynyl or evelopropyl:
          R<sup>14</sup> is hydrogen or methyl:
          R<sup>15</sup> is difluoromethyl or methanesulfonyl:
          R<sup>16</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, phenyl, or NR<sup>25</sup>R<sup>26</sup>;
          R<sup>17</sup> is hydrogen, C<sub>1</sub>-C<sub>2</sub> alkyl optionally substituted with up to 3 fluorine atoms, or C<sub>2</sub>-C<sub>6</sub>
eycloalkyl;
          R<sup>18</sup> is C<sub>1</sub>-C<sub>2</sub> alkyl or C<sub>2</sub>-C<sub>6</sub> eveloalkyl:
          R<sup>19</sup> is fluoro, hydroxy, or C<sub>1</sub>-C<sub>2</sub> alkoxy;
          R<sup>20</sup> is hydrogen, phenyl, or furyl;
          R<sup>21</sup> is C<sub>1</sub> C<sub>3</sub> alkyl optionally substituted with one or two fluorine atoms;
          R<sup>22</sup> is C<sub>1</sub>-C<sub>3</sub> alkyl, C<sub>3</sub>-C<sub>5</sub> eyeloalkyl, C<sub>2</sub>-C<sub>3</sub> alkenyl, C<sub>1</sub>-C<sub>3</sub> alkoxy, NR<sup>23</sup>R<sup>24</sup>, pyrrolidin-1-
vl optionally substituted with methyl or one or two fluorine atoms, piperidin-1-vl, phenyl,
pyridinyl, or furyl;
          R<sup>23</sup> is hydrogen or methyl:
          R<sup>24</sup> is methyl, ethyl, or propyl;
          R<sup>25</sup> is hydrogen or methyl:
          R<sup>26</sup> is methyl; or
          R<sup>25</sup> and R<sup>26</sup> taken together with the nitrogen atom to which they are attached form a
pyrrolidine or piperidine ring:
          R^{29} is hydrogen or C_1-C_6 alkyl;
          R<sup>30</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl;
          R<sup>29</sup> and R<sup>30</sup> taken together with the carbon to which they are attached form a C<sub>3</sub>-C<sub>6</sub>
cycloalkyl ring;
          R<sup>31</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>3</sub>-C<sub>6</sub> cycloalkyl, or phenyl optionally monosubstituted with
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 $R^{32}$  is hydrogen,  $R^{33}$ , or  $-(CH_2)_{0-2}$ -OR<sup>33</sup>;

 $R^{33}$  is  $C_1$ - $C_{10}$  alkyl optionally substituted with 1-6 fluorine atoms,  $C_2$ - $C_6$  alkenyl,  $C_2$ - $C_6$  alkynyl, or -(CH<sub>2</sub>)<sub>0-3</sub>- $R^{34}$ ;

 $R^{34}$  is  $C_3$ - $C_7$  cycloalkyl or phenyl each optionally substituted with one or two substitutents independently selected from the group consisting of halo,  $C_1$ - $C_6$  alkyl,  $C_1$ - $C_6$  alkoxy, hydroxy, trifluoromethyl, and trifluoromethoxy, thienyl optionally substituted with halo, benzothienyl optionally substituted with halo, or thiazolyl optionally substituted with  $C_1$ - $C_4$  alkyl, or adamantyl;

 $R^{35}$ -is- $(CH_2)_{0.6}$ - $R^{34}$ , C(O)- $(CH_2)_{0.6}$ - $R^{34}$ , -C(O)- $(C_4$ - $C_{10}$ -alkyl), -C(O)- $(C_4$ - $C_4$ -alkoxy optionally substituted with phenyl),  $C_4$ - $C_{10}$ -alkyl optionally substituted with 1–6 fluorine atoms,  $C_2$ - $C_{10}$ -alkenyl, or  $C_2$ - $C_{10}$ -alkynyl;

R<sup>26</sup> and R<sup>27</sup> are both hydrogen or, taken together with the carbon atom to which they are attached form a carbonyl group; or a pharmaceutically acceptable salt thereof; provided that: a) no more than one of X, Y, and Q may be N or N<sup>4</sup>-O<sup>7</sup>; and b) when X is CH, Y is CR<sup>11</sup>, and Q is CR<sup>12</sup>, then one of R<sup>11</sup> and R<sup>12</sup> is other than hydrogen.

## 2-5. (Canceled)

6. (Currently amended) A pharmaceutical formulation composition comprising a compound of Claim 1, in combination with a pharmaceutically acceptable carrier, diluent, or excipient.

## 7-8. (Canceled)

- 9. (Previously presented) A method for the inhibition of A-β peptide comprising administering to a mammal in need of such treatment an effective amount of a compound of Claim 1.
- 10. (Canceled)
- 11. (New) A compound of Claim 1 wherein R<sup>1</sup> is methyl.
- 12. (New) A compound of Claim 1 wherein R<sup>2</sup> is benzyl optionally monosubstituted or disubstituted in the phenyl ring with fluoro.